



# UNITED STATES PATENT AND TRADEMARK OFFICE

Sp

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/680,604	10/06/2000	Dan Matheson	COCR.01USU1	9577

22879 7590 07/26/2005

HEWLETT PACKARD COMPANY  
P O BOX 272400, 3404 E. HARMONY ROAD  
INTELLECTUAL PROPERTY ADMINISTRATION  
FORT COLLINS, CO 80527-2400

EXAMINER
----------

CABRERA, ZOILA E

ART UNIT	PAPER NUMBER
----------	--------------

2125

DATE MAILED: 07/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/680,604

Applicant(s)

MATHESON, DAN

Examiner

Zoila E. Cabrera

Art Unit

2125

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 28 April 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-6, 8-13 and 15-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6, 8-13, 15-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 8 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by **Sebastian et al. (US 5,822,206)**.

Claims 1, 8 and 15 are so broad as to read in **Sebastian et al.** who discloses a computer system for (Col. 17, lines 44-50) for capturing decision-related data to a product design (Col. 5, lines 44-47) comprising:

- a question software interface for capturing a question in a question object that encapsulates text-based information related to a design issue associated with said product design (Col. 16, lines 39-45, i.e., The material properties database 90 supports multiple data representations for any given property. The database 90 supports an **SQL interface to accomplish extensive pattern matching query operations, for example, return all resins with a glass transition temperature greater than 150 C**; Fig. 7, Material selector 72 and material property database 90); an answer software interface for capturing an answer in an answer object that encapsulates text-based information addressing

information encapsulated in a selected question object and that is linked to said selected question object (Col. 5, lines 59-24; Col. 15, lines 34-36; the material selector module can provide its output, *or answer*, in the template notation of the present invention. Please note that any query that is made through the SQL interface returns an answer. In the example given above, the answer would be all resins with glass transition temperature greater than 150 C); and a decision software interface for capturing a decision in a decision object that encapsulates text-based information defining a product requirement in response to information in said selected question object and that is linked to said selected question object (Col. 6, lines 40-44; Col. 17, lines 4-35, i.e., the core design module 76 utilizes the information produced by the material selector module 72 to generate a more feasible design. Please note that the core design module takes into account the material selector module and give suggestions or decisions about the possible options that fulfill the user's requirements).

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2, 4-6, 9, 11-13, 16 and 18-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Sebastian (US 5,822,206)** in view of **Thackston (US 6,295,513)**.

**Sebastian** discloses the limitations of claims 1, 8 and 15 above but fails to specifically disclose the limitations of claims 2, 4-6, 9, 11-13, 16 and 18-19. However, **Thackston** discloses such limitations as follows:

As for claims 2, 4-6, 9, 11-13, 16 and 18-19, Thackston discloses:

- each of said question object, said answer object, and said decision object is stored in a tool-neutral persistent form (Col. 5, lines 47-51);
- said question interface captures an association of said question object with a decision object (Fig. 19B, element 1926, 1936 or Fig. 23, elements 4320 and 4360);
- said answer interface captures an association of said answer object with a question object (Fig. 23, element 4320, 4360);
- said decision interface captures an association of said decision object with an answer object (Fig. 19B, output of element 1928 is associated with decision element 1936);
- said answer interface captures an association of said answer object with a question object (Fig. 23, element 4320, 4360, query and result).

Therefore, it would have been obvious to a person of the ordinary skill in the art at the time the invention was made to combine the teachings of **Sebastian** with **Thackston** because it would provide an improved system that maintains

engineering data, such as design documents and three dimensional model data, in a common, neutral format, which is accessible by authorized team members through a graphical user interface (**Thackston**, Col. 3, line 64 – Col. 4, lines 4)

3. Claims 3, 10 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Sebastian and Thackston** in view of **Twigg (US 2002/0012007 A1)**.

**Sebastian and Thackston** discloses the limitations of claims 1-2, 8-9 and 15-16 and further **Thackston** discloses the use of separate relational database (Col. 6, lines 50-53). **Sebastian and Thackston** fail to specifically disclose, regarding claims 3, 10 and 17, wherein associations between each of said question object, said answer object, and said decision object are captured using foreign keys. However, **Twigg** discloses an internet based design/drafting system wherein associations between description data, note data and cost data regarding a design take place (Page 3, 0038, lines 13-24 and lines 32-35, "one or more data fields 36, 46 of each design file 22 can be related to the overall design; Fig. 3, foreign keys correspond to Class #, Description, Note, Cost). Therefore, it would have been obvious to a person of the ordinary skill in the art at the time the invention was made to combine the teachings of **Sebastian and Thackston** with **Twigg** because it would provide an improved system wherein relationships of a class object are related using foreign keys or a common column such as shown in Fig. 3, Class #, 32-1, 32-2, 32-X; Description 34-1, 34-2, 34-x), in order to communicate ideas regarding a design and/ or features of a design (**Twigg**, Page 1, 0005, lines 1-3).

### ***Response to Arguments***

4. Applicant's arguments filed April 28, 2005 have been fully considered but they are not persuasive. A further explanation and new citations have been provided in order to clarify how the prior art of record reads on the claims presented herein. Applicant contends that Sebastian merely discloses queries and results from those queries and further contends that a question object is an object that encapsulates text-based information related to a design issue. Examiner disagrees because Sebastian discloses that a SQL interface (or question object interface) is provided to make queries about the materials (Fig. 7, Search Queries). The text-based information related to a design issue reads on the example given by Sebastian such as **"return all resins with a glass transition temperature greater than 150 C"** (Col. 16, lines 39-45).

### ***Conclusion***

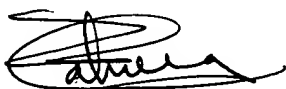
5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning communication or earlier communication from the examiner should be directed to Zoila Cabrera, whose telephone number is (703) 306-4768. The examiner can normally be reached on M-F from 8:00 a.m. to 5:30 p.m. EST (every other Friday).

If attempts to reach the examiner by phone fail, the examiner's supervisor, Leo Picard, can be reached on (703) 308-0538. Additionally, the fax phones for Art Unit

Art Unit: 2125

2125 are (703) 872-9306. Any inquiry of a general nature or relating to the status of this application should be directed to the group receptionist at (703) 305-9600.

A handwritten signature in black ink, appearing to read 'Zoila Cabrera', with a stylized flourish at the end.

Zoila Cabrera  
Patent Examiner  
7/21/05